

Transcribed copy of Attachment B to the Declaration of
 Gerald Gontarz under 37 C.F.R. §1.131

Li Medical Spinal Nucleus

Date

Will now make "melt extrudable" type aquacryl in order to make a spinal nucleus that has a shape memory. Using 89% w.c. aquacryl as a base will cast long strips, coagulate, then wash in saline. These will be equilibrated in 10% NaSCN, then concentrated as follows:

AQUACRYL COMPOSITION:					Part. coefficient r		
Date	Initial water content	89.00%			Swelling solution		NaSCN
	at NaCl concentration	0.9%			NaSCN	conc	10.0%
				NaSCN	water		
	Weight	Polymer w	w2	weight	weight		
Initial state:	342.80	37.89	0.1100				
Swollen state:	263.81	37.89	0.1429	22.6124	241.0547		
		Liquid wt.	Target wt.	Pol. conc:			
Target concentration	45.0%	50.24978	87.94	42.9%	71.2	11.74	
	50.0%	45.2248	82.91	45.5%			
	55.0 %	41.11345	78.80	47.8%			
	60.0%	37.68733	75.37	50.0%			
	Will evaporate		175.87	g of water			
	By adding		606.4826	g of silica			

I will shape these into spirals and heat to 100°C for 15 minutes in order to instill a shape. This will be washed and plasticized as normal procedures. Samples saved as JG-9-107-A.

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2. Medical Spinal Nucleus

Well, now make "soft, erasable" type aquacryl in
order to make a spinal nucleus that has a shape memory.
Using 83% w.c. aquacryl as a base with cross link agent,
cureately, then wash in saline. Then will be equilibrated
in 10% NaCl, then concentrated as follows:

AQUACRYL COMPOSITION:		Initial water content: [in NaCl concentration:	NaSCN Water weight	NaSCN conc.	NaSCN
Weight	Polymer w.				
Initial state:	342.60	37.80	0.1169		
Swellen state:	253.81	37.83	0.1429	22.6124	244.0547
Target concentration:	45.0% 50.0%	50.24078 45.22481	87.84 82.81	22.5%	J.L. 1074
Target:	55.0% 60.0%	41.113451 37.887331	78.86 75.37	41.8% 50.0%	
Well evaporate			175.87 g of water		
By scaling			603.48201 g of NaSCN		

I will shape these into spirals and heat to 100°C for
15 minutes in order to install a shape. This will be
washed and plasticized as normal procedures.

Sample saved at 36-9-107-A